

# CLARK

## KPM Square Series Miniature Gas Pumps

DC Power, Pressure to 350 mmHg

### DESCRIPTION

The KPMS series pumps incorporate two mini-diaphragms operated by a rocker arm attached to an eccentric on a motor shaft. The function is simple and reliable.

KPMS pumps are remarkably small, ranging in overall length from 31 mm to 115 mm. In addition to small size and light weight they offer excellent performance considering their very low cost.

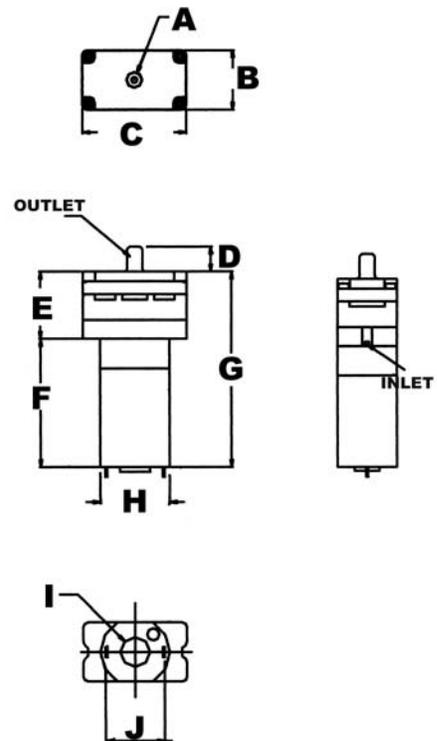
KPMS pumps are offered in three models and are only offered for OEM applications. Samples are available for the qualified OEM so that application suitability can be determined.



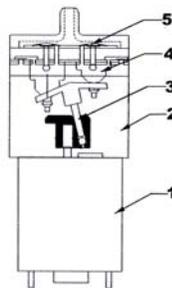
### SPECIFICATIONS

#### GENERAL

	KPM-08A-3A	KPM-12A-3B	KPM-14A-3A2
Rated Voltage:	3 VDC	3 VDC	3 VDC
Operating Voltage Range:	2.0-3.2 V	2.0-3.2 V	2.0-3.2 V
Rated Current:	<300 mA	<460 mA	<380 mA
Max Pressure:	>300 mmHg	>300 mmHg	>300 mmHg
Max Flow (No Back Pressure):	0.5 LPM	1.0 LPM	1.0 LPM
Max Flow(Under Pressure):	0.5 LPM	0.4 LPM	0.4 LPM
Startup Voltage(200 mmHg):	2V	2V	2V
Operating Temp. Range:	5-45°C	5-45°C	5-45°C
Operating Humidity Range:	30 to 80% RH	30 to 80% RH	30 to 80% RH
Duty Cycle:	25%	25%	25%
Noise:	<71 dB	<71 dB	<71 dB
Life:	150 Hrs	150 Hrs	150 Hrs
Tube Barb O.D.:	3 mm O.D.	3 mm O.D.	3 mm O.D.



- 1) DC Motor
- 2) Plastic Body
- 3) Steel Pin
- 4) Rubber Diaphragm
- 5) Rubber Umbrella Valve



### DIMENSIONS (MM)

	A	B	C	D	E	F	G	H	I	J
KPM-08A-3A	3.1	8.0	17.8	5.0	13.6	18.4	32	10	4.0	-
KPM-12A-3B	3.1	12	21	5.0	13.6	24.6	38.2	14	6.0	11.8
KPM--14A-3A2	3.0	12	27	4.5	16.8	25.3	42.1	14	6.0	11.8

Note: Above dimensions are for general sizing and reference purposes only. Please request specific model drawing for precise dimensions with tolerances.

### ORDERING INFORMATION

#### SELECT MODEL NUMBER

Model  
**KPM-08A-3A-3B**  
**KPM-12A**  
**KPM--14A-3A2**

These items typically ship from stock